

### **DETAILED ACTION**

1. This office action is in response to the amendment filed on 11/10/04.

#### ***Allowable Subject Matter***

2. Claims 1-17, 21-28 are allowed.
3. The following is a statement of reasons for the indication of allowable subject matter:

Applicants have cancelled claims 18-20 and amended claims 21-22 in corresponding to the office action dated 09/03/04. The present invention relates to method and apparatus for channel estimation in OFDM system. Specifically, method and apparatus of increasing the efficiency of channel estimation by choosing and compensating of subset of data symbols based on the signal strength (i.e. strongest data symbols) from a set of received data symbols in the iterative process. Upon further consideration, prior art of record (closest reference, Buehrer et al. – US 6,614,857), taking alone or in combination with others, fails to fairly teach such method and apparatus for channel estimation, as claimed, in claims 1-17, 21-28. Thus, claims 1-17, 21-28 are found to be novel and unobvious over prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2634

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Dac V. Ha  
Primary Examiner  
Art Unit 2634